



SPYWOLF

Security Audit Report



Completed on
November 2, 2023

@SPYWOLFNETWORK



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SPYWOLF.CO





OVERVIEW

This audit has been prepared for **DigitalBay** to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

“

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

”

- SPYWOLF Team -





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DigitalBay



PROJECT DESCRIPTION

According to their whitepaper:

"Enter the DigitalBay Ecosystem on the Base and Binance Chain, providing a seamless experience for users to access the most sought-after Defi protocols. Our platform offers a secure and reliable environment where individuals can confidently explore a wide range of Defi opportunities, empowered by transparent and secure smart contracts."

Release Date: Presale starts October 31, 2023

Category: Ecosystem



CONTRACT INFO

Token Name	Symbol
DigitalBay	\$DBC
Contract Address	
0x48C684C5c0510A0F0B18b08dcdFdc44adBb0348d	
Network	Language
Binance Smart Chain	Solidity
Deployment Date	Verified?
Nov 1, 2023	Yes
Total Supply	Status
100,000,000	Not launched

TAXES

Buy Tax

none

Sell Tax

none

*Taxes can be changed in future



Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat



TOKEN TRANSFERS STATS

Transfer Count	83
Uniq Senders	6
Uniq Receivers	76
Total Amount	101057666.62097329 DBC
Median Transfer Amount	5000.000078466254 DBC
Average Transfer Amount	1217562.2484454613 DBC
First transfer date	2023-11-01
Last transfer date	2023-11-02
Days token transferred	2

SMART CONTRACT STATS

Calls Count	87
External calls	17
Internal calls	69
Transactions count	18
Uniq Callers	6
Days contract called	2
Last transaction time	2023-11-02 08:33:48 UTC
Created	2023-11-01 09:06:32 UTC
Create TX	0xd3d04c91139e56e8eccb6ea52cc6c4a943766192245d86b726135b1c860e16cb
Creator	0xec8b25cdeddcc4af2f40a494d27a2412489cc7de



VULNERABILITY CHECK

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions and reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed



THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.



FOUND THREATS

⚠ High Risk

Owner can blacklist address, making it impossible to sell.

```
function EnemyAddress(address account, bool value) external onlyOwner{
    _isEnemy[account] = value;
}

function _transfer(
    address sender,
    address recipient,
    uint256 amount
) internal override virtual {
    .....
    require(!_isEnemy[sender] && !_isEnemy[recipient], 'Enemy address');
    .....
}
```

- Recommendation:
 - Considered as good practice is blacklisting addresses to be automated based on pre defined criteria.

- Note from developer:
"The purpose of implementing a blacklist function in our contract is to target the wallets of exploiters and hackers. Please be aware that normal users will never be on this list."



FOUND THREATS

⚠ High Risk

Owner can set buy/sell fees up to 100%.

When fees are above 0, there will be certain amount of tokens that will be deducted from every transaction that users make.

Deducted amount will be as much as the fees % from total amount that user had bought, sold and/or transferred.

```
function setBuyTax(uint256 dev, uint256 marketing,
uint256 liquidity, uint256 charity) public onlyOwner {
    buyTaxes["dev"] = dev;
    buyTaxes["marketing"] = marketing;
    buyTaxes["liquidity"] = liquidity;
    buyTaxes["charity"] = charity;
}

function setSellTax(uint256 dev, uint256 marketing,
uint256 liquidity, uint256 charity) public onlyOwner {

    sellTaxes["dev"] = dev;
    sellTaxes["marketing"] = marketing;
    sellTaxes["liquidity"] = liquidity;
    sellTaxes["charity"] = charity;
}

function setTaxWallets(address dev, address marketing,
address charity) public onlyOwner {
    taxWallets["dev"] = dev;
    taxWallets["marketing"] = marketing;
    taxWallets["charity"] = charity;
}
```

Recommendation:

Considered as good tax deduction practice is buy and sell fees combined not to exceed 25%.

- Note from developer::

"The team guarantees that the total taxes will never exceed 30%. This flexibility in adjusting the tax rate has been put in place to adapt to the circumstances and needs of the protocol."

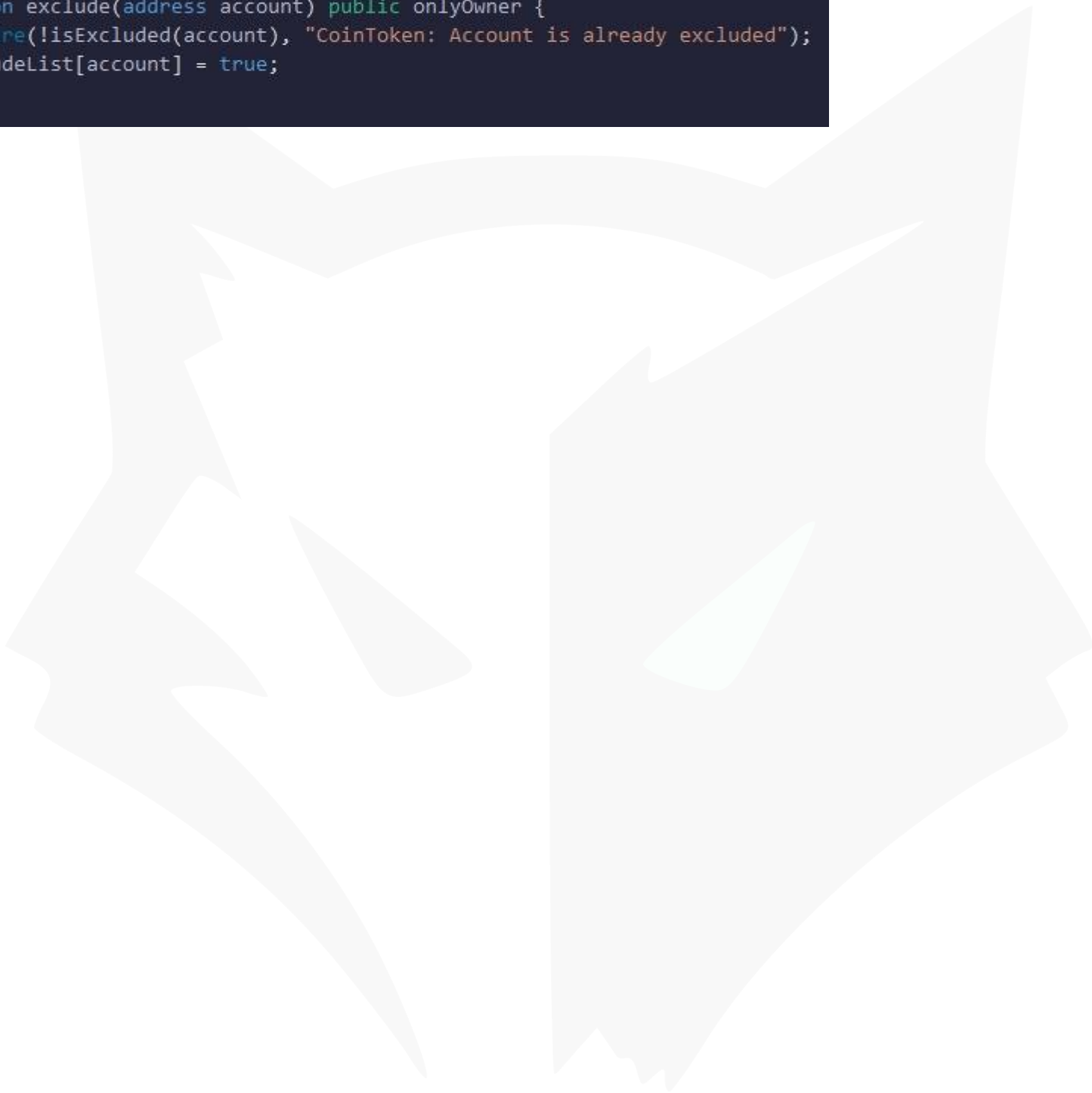


Informational

Owner can exclude address from fees.

When address is excluded from fees, the user will receive the whole amount of the bought, sold and/or transferred tokens.

```
function exclude(address account) public onlyOwner {  
    require(!isExcluded(account), "CoinToken: Account is already excluded");  
    excludeList[account] = true;  
}
```





RECOMMENDATIONS FOR

GOOD PRACTICES

1

Consider fundamental tradeoffs

2

Be attentive to blockchain properties

3

Ensure careful rollouts

4

Keep contracts simple

5

Stay up to date and track development

DigitalBay

GOOD PRACTICES FOUND

- ✓ The owner cannot mint new tokens after deployment
- ✓ The owner cannot set a transaction limit



The following tokenomics are based on the project's whitepaper and/or website:

Allocation and Distribution

DigitalBay Coin (\$DBC) allocation is pre-determined according to the following table:

Allocation	% of Total Supply	Tokens
Will be used for development.	10%	10000000 DBC
Will be used for partnership with ecological construction, including marketing, promotional activities, liquidity management.	15%	15000000 DBC
Community Fund	5%	5000000 DBC
Will be allocated to DBC community members.	70%	70000000 DBC

Pre- Sale Allocation	
Will be used for development.	10%
Will be used for partnership with ecological construction, including marketing, promotional activities, liquidity management.	15%
Community Fund	5%
Will be allocated to DBC community members.	70%

TOKENOMICS



THE TEAM

! The team is anonymous

KYC INFORMATION

! No KYC

We recommend the team to get a KYC in order to ensure trust and transparency within the community.





WEBSITE

Website URL

<https://digitalbay.io/>

Domain Registry

<http://key-systems.net>

Domain Expiration

2024-03-05

Technical SEO Test

Passed

Security Test

Passed. SSL certificate present

Design

Great color scheme and easy to navigate.

Content

The information helps new investors understand what the product does right away. No grammar mistakes found.

Whitepaper

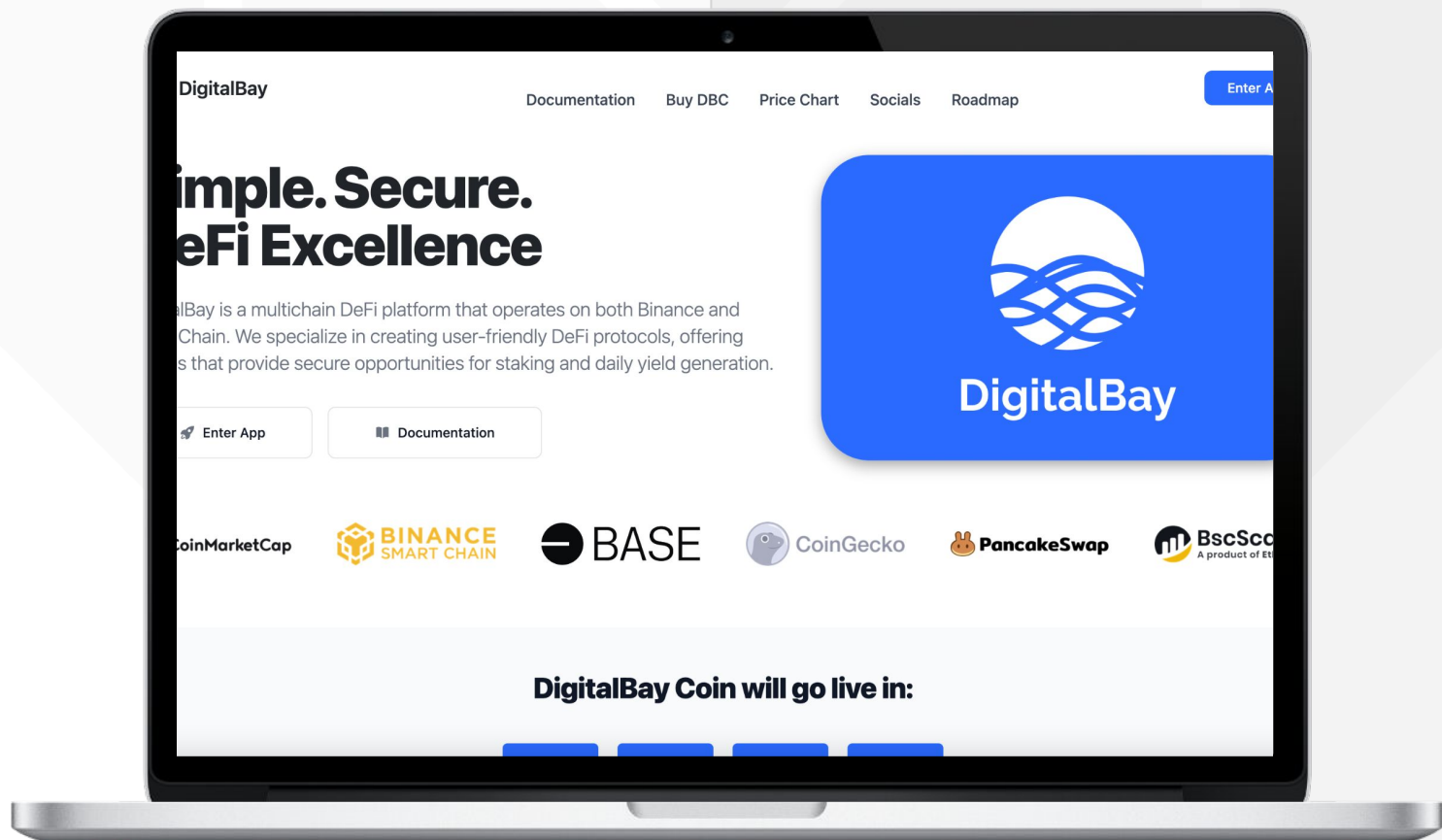
Well written, explanatory
<https://docs.digitalbay.io>

Roadmap

Yes

Mobile-friendly?

Yes



digitalbay.io

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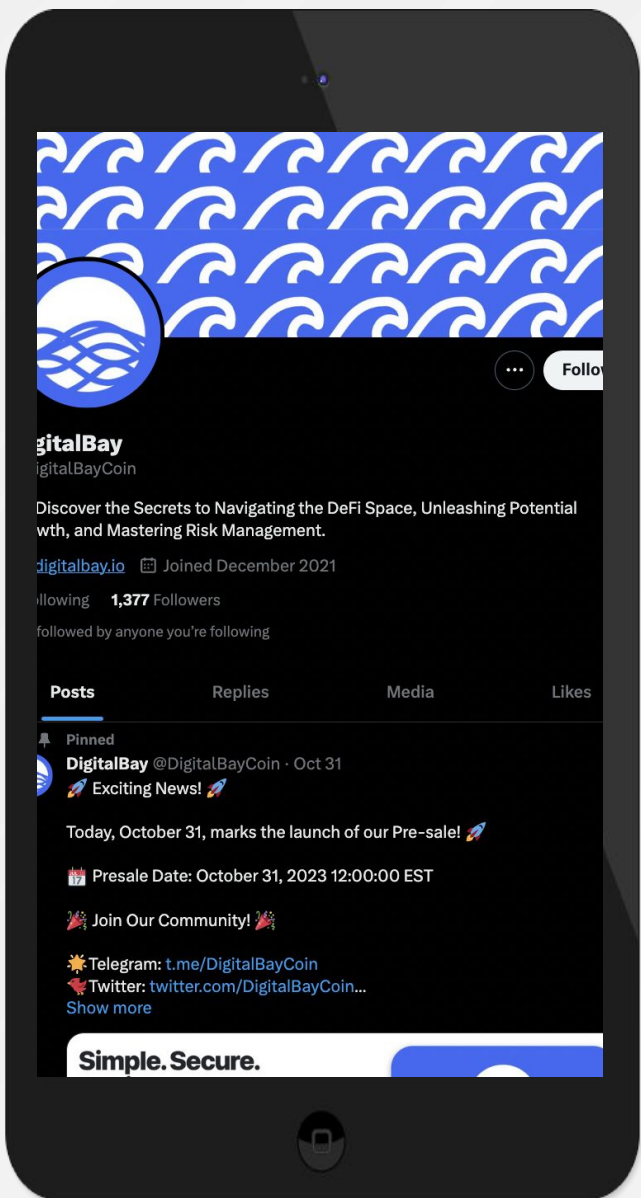
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SOCIAL MEDIA & ONLINE PRESENCE



ANALYSIS
Project's social media
pages are active.



Twitter
@DigitalBayCoin

- 1,377 Followers
- Active
- Posts frequently



Discord
/pbVUcxE6jq

- 79 members
- Active



Telegram
@DigitalBayCoin

- 290 members
- Active members
- Active mods



Medium

- Not available



SPYWOLF

CRYPTO SECURITY

Audits | KYCs | dApps
Contract Development

ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.